

WHAT IS CLAIMED IS:

1 1. A method of configuring a client computer connected to a network, wherein
2 a remote computer is capable of communicating with the client computer over the
3 network, comprising:
4 storing sets of configuration parameters in a non-volatile storage unit, wherein the
5 sets of configuration parameters instruct at least one program how to initialize operational
6 parameters and load programs into the client computer memory during a power on; and
7 for each set of configuration parameters, storing a token in the non-volatile
8 storage unit indicating access rights to the set of configuration parameters, wherein the
9 token specifies whether management entities running on the remote computer and client
10 computer can access the set of configuration parameters for that token.

1 2. The method of claim 1, wherein each token specifies at least one
2 management entity, wherein only the management entity specified in the token has access
3 rights to the set of configuration parameters associated with that token, wherein at least
4 one token specifies one management entity at the client computer and at least one other
5 token specifies one management entity at the remote computer.

1 3. The method of claim 1, wherein the at least one program is capable of
2 comprising a boot program, operating system or application program.

1 4. The method of claim 1, wherein the client computer and remote computer
2 are capable of modifying the access rights specified in the token if the access rights
3 permit the client computer or remote computer requesting the modification write access
4 to the set of configuration parameters, further comprising:
5 storing modifications in the non-volatile storage unit from the client computer or
6 remote computer to the access rights specified in the token for one set of configuration
7 parameters, wherein the modifications are made to the token if the client computer or

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1 4. The method of claim 3, wherein the access rights in one token specify one
2 application program in the remote computer or client program that can modify the set of
3 configuration parameters.

1 6. The method of claim 5, further comprising:
2 launching a setup program from the removable storage unit during a power on
3 when the client computer has not previously been configured;
4 receiving settings for at least one set of configuration parameters via the setup
5 program; and
6 storing the received settings in the non-volatile storage unit, wherein the
7 configuration program is launched to provide an interface to allow the user to set
8 configuration parameters for other sets of configuration parameters.

1 7. The method of claim 1, wherein the sets of configuration associated with
2 the tokens include at least one of the following sets of configuration parameters:
3 network configuration parameters indicating network settings the client computer
4 uses to communicate over the network;
5 operating system configuration parameters for an operating system loaded into the
6 client computer memory;

7 application configuration parameters indicating parameters for application
8 programs loaded into the client computer memory;
9 user configuration parameters indicating settings for a user interface displayed at
10 the client computer; and
11 Simple Network Management Protocol (SNMP) configuration parameters.

1 8. The method of claim 1, further comprising:
2 launching a setup program from the removable storage unit during a power on
3 when the client computer has not previously been configured;
4 receiving settings for network configuration parameters indicating a network
5 address for the client computer through the setup program;
6 receiving operating system configuration parameters for an operating system
7 kernel to load into the client computer memory through the setup program; and
8 storing the network and operating system configuration parameters received
9 through the setup program in the non-volatile storage unit.

1 9. The method of claim 8, further comprising launching a configuration
2 program from the setup program to receive application configuration parameters for
3 application programs to load into the client computer memory and user interface
4 configuration parameters.

1 10. The method of claim 1, further performing beginning an initialization
2 routine after a power on event, wherein if the client computer was previously configured,
3 during the initialization performing:
4 loading network configuration parameters stored in the non-volatile storage unit
5 indicating a network address for the client computer to use; and
6 loading operating system configuration parameters when loading an operating
7 system kernel.

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(i) storing sets of configuration parameters in the non-volatile storage unit,
wherein the sets of configuration parameters instruct at least one program how to

Variable	Mean	SD	Min	Max
Age	35.2	12.5	18	65
Gender	Male	Female	Male	Female
Marital Status	Married	Single	Married	Single
Education	High School	College	High School	College
Occupation	Manager	Worker	Manager	Worker
Income	\$30,000	\$45,000	\$15,000	\$75,000
Health Status	Good	Fair	Good	Fair
Exercise Frequency	Weekly	Monthly	Weekly	Monthly
Stress Level	Low	High	Low	High
Sleep Quality	Good	Poor	Good	Poor
Dietary Habits	Healthy	Unhealthy	Healthy	Unhealthy
Alcohol Consumption	Occasional	Frequent	Occasional	Frequent
Tobacco Use	Non-user	User	Non-user	User
Family Size	2	3	1	4
Home Ownership	Owner	Renter	Owner	Renter
Commute Time	30 min	45 min	15 min	60 min
Work Hours	40 hrs/week	50 hrs/week	30 hrs/week	60 hrs/week
Job Satisfaction	High	Low	High	Low
Life Satisfaction	High	Low	High	Low
Overall Health Score	75	10	50	100

1 17. The system of claim 15, wherein the at least one program code includes a
2 boot program, operating system or application program.

1 18. The system of claim 15, wherein the client computer and remote computer
2 are capable of modifying the access rights specified in the token if the access rights
3 permit the client computer or remote computer requesting the modification write access
4 to the set of configuration parameters, wherein the program code is further capable of
5 causing the client computer processor to perform:
6 storing modifications in the non-volatile storage unit from the client computer or
7 remote computer to the access rights specified in the token for one set of configuration
8 parameters, wherein the modifications are made to the token if the client computer or
9 remote computer initiating the modifications is indicated in the access writes as having
10 write access.

1 19. The system of claim 18, wherein the access rights in one token specify one
2 application program in the remote computer or client program that can modify the set of
3 configuration parameters.

1 20. The system of claim 18, wherein the program code is further capable of
2 causing the client computer processor to perform:
3 launching a configuration program from a removable storage unit interfaced with
4 the client computer, wherein the configuration program is used to modify sets of
5 configuration parameters in the non-volatile storage unit.

1 21. The system of claim 20, wherein the program code is further capable of
2 causing the client computer processor to perform:
3 launching a setup program from the removable storage unit during a power on
4 when the client computer has not previously been configured;
5 receiving settings for at least one set of configuration parameters via the setup
6 program; and
7 storing the received settings in the non-volatile storage unit, wherein the
8 configuration program is launched to provide an interface to allow the user to set
9 configuration parameters for other sets of configuration parameters.

1 22. The system of claim 15, wherein the sets of configuration associated with
2 the tokens include at least one of the following sets of configuration parameters:
3 network configuration parameters indicating network settings the client computer
4 uses to communicate over the network;
5 operating system configuration parameters for an operating system loaded into the
6 client computer memory;
7 application configuration parameters indicating parameters for application
8 programs loaded into the client computer memory;

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9 user configuration parameters indicating settings for a user interface displayed at
10 the client computer; and
11 Simple Network Management Protocol (SNMP) configuration parameters.

1 23. The system of claim 15, wherein the program code is further capable of
2 causing the client computer processor to perform:
3 launching a setup program from the removable storage unit during a power on
4 when the client computer has not previously been configured;
5 receiving settings for network configuration parameters indicating a network
6 address for the client computer through the setup program;
7 receiving operating system configuration parameters for an operating system
8 kernel to load into the client computer memory through the setup program; and
9 storing the network and operating system configuration parameters received
10 through the setup program in the non-volatile storage unit.

1 24. The system of claim 23, wherein the program code is further capable of
2 causing the client computer processor to perform launching a configuration program from
3 the setup program to receive application configuration parameters for application
4 programs to load into the client computer memory and user interface configuration
5 parameters.

1 25. The system of claim 15, wherein the program code is further capable of
2 causing the client computer processor to perform beginning an initialization routine after
3 a power on event, wherein if the client computer was previously configured, during the
4 initialization performing:
5 loading network configuration parameters stored in the non-volatile storage unit
6 indicating a network address for the client computer to use; and

Figure 1 displays 12 histograms arranged in a 4x3 grid, showing the distribution of the number of non-zero elements in the vector x for different values of n (10, 20, 40, 80) and α . The x-axis represents the 'Number of non-zero elements' (0 to 100), and the y-axis represents the 'Frequency' (0 to 10). The distributions are generally bell-shaped and centered around 50, with the spread increasing as n increases.

1 27. The system of claim 25, wherein the operating system configuration
2 parameters indicate a remote server on the network including the operating system kernel,
3 further wherein the program code is further capable of causing the client computer
4 processor to perform during the initialization:

7 loading the downloaded operating system kernel into the client computer.

loading at least one application program indicated in the application configuration
parameters into the memory of the client computer.

3 accessing the at least one application program from a remote server over the
4 network or from the removable storage unit interfacing with the client computer, wherein
5 the accessed at least one application program is loaded into the client computer memory.

1 30. A program of configuring a client computer connected to a network,
2 wherein a remote computer is capable of communicating with the client computer over

Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0-24	h
Agitation speed	150	rpm
Batch size	100	L
Reactor type	Stirred tank	
Impeller type	6-bladed turbine	
Impeller diameter	0.1	m
Reactor height	0.5	m
Reactor volume	0.05	m ³
Reactor material	Stainless steel	
Reactor manufacturer	Warriner	
Reactor model	Warriner 100	
Reactor serial number	100	
Reactor location	Warriner	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease	10/10/10	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease	10/10/10	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease	10/10/10	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease	10/10/10	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease	10/10/10	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease	10/10/10	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease	10/10/10	
Reactor date of purchase	10/10/10	
Reactor date of last maintenance	10/10/10	
Reactor date of next maintenance	10/10/10	
Reactor date of decommission	10/10/10	
Reactor date of disposal	10/10/10	
Reactor date of recycling	10/10/10	
Reactor date of reuse	10/10/10	
Reactor date of sale	10/10/10	
Reactor date of transfer	10/10/10	
Reactor date of loan	10/10/10	
Reactor date of rental	10/10/10	
Reactor date of lease		

1 32. The program of claim 30, wherein the at least one program is capable of
2 comprising a boot program, operating system or application program.

1 33. The program of claim 30, wherein the client computer and remote
2 computer are capable of modifying the access rights specified in the token if the access
3 rights permit the client computer or remote computer requesting the modification write
4 access to the set of configuration parameters, wherein the program code is further capable
5 of causing the processor to perform:
6 storing modifications in the non-volatile storage unit from the client computer or
7 remote computer to the access rights specified in the token for one set of configuration
8 parameters, wherein the modifications are made to the token if the client computer or

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1 35. The program of claim 30, wherein the program code is further capable of
2 causing the processor to perform:

1 36. The program of claim 35, wherein the program code is further capable of
2 causing the processor to perform:

5 receiving settings for at least one set of configuration parameters via the setup
6 program; and

1 37. The program of claim 30, wherein the sets of configuration associated with
2 the tokens include at least one of the following sets of configuration parameters:

3 network configuration parameters indicating network settings the client computer
4 uses to communicate over the network;

5 operating system configuration parameters for an operating system loaded into the
6 client computer memory;
7 application configuration parameters indicating parameters for application
8 programs loaded into the client computer memory;
9 user configuration parameters indicating settings for a user interface displayed at
10 the client computer; and
11 Simple Network Management Protocol (SNMP) configuration parameters.

1 38. The program of claim 30, wherein the program code is further capable of
2 causing the processor to perform:
3 launching a setup program from the removable storage unit during a power on
4 when the client computer has not previously been configured;
5 receiving settings for network configuration parameters indicating a network
6 address for the client computer through the setup program;
7 receiving operating system configuration parameters for an operating system
8 kernel to load into the client computer memory through the setup program; and
9 storing the network and operating system configuration parameters received
10 through the setup program in the non-volatile storage unit.

1 39. The program of claim 38, wherein the program code is further capable of
2 causing the processor to perform launching a configuration program from the setup
3 program to receive application configuration parameters for application programs to load
4 into the client computer memory and user interface configuration parameters.

1 40. The program of claim 30, wherein the program code is further capable of
2 causing the processor to perform beginning an initialization routine after a power on
3 event, wherein if the client computer was previously configured, during the initialization
4 performing:

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5 loading network configuration parameters stored in the non-volatile storage unit
6 indicating a network address for the client computer to use; and
7 loading operating system configuration parameters when loading an operating
8 system kernel.

1 41. The program of claim 30, wherein the operating system is loaded from the
2 removable storage unit interfacing with the client computer.

1 42. The program of claim 40, wherein the operating system configuration
2 parameters indicate a remote server on the network including the operating system kernel,
3 wherein the program code is further capable of causing the processor to perform:
4 downloading the operating system kernel from the remote server indicated in the
5 operating system configuration parameters; and
6 loading the downloaded operating system kernel into the client computer.

1 43. The program of claim 30, wherein the program code is further capable of
2 causing the processor to perform:
3 loading at least one application program indicated in the application configuration
4 parameters into the memory of the client computer.

1 44. The program of claim 43, wherein the program code is further capable of
2 causing the processor to perform:
3 accessing the at least one application program from a remote server over the
4 network or from the removable storage unit interfacing with the client computer, wherein
5 the accessed at least one application program is loaded into the client computer memory.